METHOD AND SYSTEM FOR GLOBAL ROAMING BETWEEN INTERNATIONAL MOBILE TELECOMMUNICATIONS-2000(IMT-2000) SYSTEMS HAVING MUTUALLY DIFFERENT STANDARDS

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Abstract of **KR20010017852**

PURPOSE: A method and system for global roaming between international mobile telecommunications-2000(IMT-2000) systems having mutually different standards is provided to add interworking functions like an interworking mobile switching center(IMSC) and an interworking authentication center(IAC), and to absorb/convert a difference between standards of the IMT-2000 systems, so as to easily support the global roaming. CONSTITUTION: If a mobile subscriber of an European Telecommunications Standards Institute(ETSI) system(22) performs roaming to a Telecommunications Industry Association/Electronics Industry Association(TIA/EIA) system(21), a mobile station(MS) performs an authentication algorithm for the subscriber, and an authentication result value is transmitted to a base station(BS). The BS transmits the authentication result value and information related to location registration to a mobile switching center(MSC). The MSC transmits the authentication result value to a visitor location register(VLR) in order to decide whether the subscriber is appropriate. The VLR transmits the authentication result value to a TIA-interworking location register (ILR). The TIA-ILR transmits the authentication result value to an ETSI-interworking authentication center(IAC) of the ETSI system(22). The ETSI-IAC performs an authentication algorithm, an authentication key, and an authentication procedure of the TIA/EIA system(21). The ETSI-IAC of the ETSI system(22) compares the a result value of the authentication algorithm with the authentication result value from the TIA-ILR, to decide whether the subscriber is appropriate. A decided result is transmitted to the TIA-ILR. The TIA-ILR transmits the authentication decision result to the VLR. The VLR transmits the authentication decision to the MSC.

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